## **LISTING OF CLAIMS:**

Claim 1 (previously presented): An anode for use in a fuel cell having improved tolerance to voltage reversal, said anode comprising a first catalyst composition for electrochemically oxidizing a fuel directed to said anode and a second catalyst composition capable of evolving oxygen from water,

wherein said second catalyst composition comprises a metal oxide selected from the group consisting of precious metal oxides, mixtures of precious metal oxides, solid solutions of precious metal oxides, mixtures of precious metal oxides and valve metal oxides, and solid solutions of precious metal oxides and valve metal oxides, whereby voltage reversal tolerance is imparted to said fuel cell.

Claim 2 (original): The anode of claim 1 wherein said fuel cell is an acid electrolyte fuel cell.

Claim 3 (original): The anode of claim 1 wherein said fuel cell is a solid polymer electrolyte fuel cell.

Claim 4 (original): The anode of claim 3 wherein said first catalyst composition is selected from the group consisting of precious metals, transition metals, oxides of precious metals and transition metals, alloys of precious metals and transition metals, and mixtures of precious metals and transition metals.

Claim 5 (original): The anode of claim 3 wherein said first catalyst composition is selected from the group consisting of precious metals, alloys of precious metals, mixtures of precious metals, precious metals alloyed

with transition metals, and mixtures of precious metals and transition metal oxides.

Claim 6 (original): The anode of claim 3 wherein said first catalyst composition comprises a platinum-containing compound selected from the group consisting of platinum and an alloy of platinum and ruthenium.

Claim 7 (canceled).

Claim 8 (previously presented): The anode of claim 1 wherein said metal oxide comprises a precious metal oxide selected from the group consisting of RuO<sub>x</sub>, IrO<sub>x</sub>, and solid solutions of RuO<sub>x</sub> and IrO<sub>x</sub>, wherein x is greater than 1.

Claim 9 (original): The anode of claim 8 wherein x is about 2.

Claim 10 (previously presented): The anode of claim 1 wherein said metal oxide is selected from the group consisting of RuO<sub>2</sub> and solid solutions of RuO<sub>2</sub> and IrO<sub>2</sub>.

Claim 11 (original): The anode of claim 10 wherein said metal oxide comprises RuO<sub>2</sub>.

Claim 12 (previously presented): An anode for use in a solid polymer electrolyte fuel cell having improved tolerance to voltage reversal, said anode comprising a first catalyst composition for electrochemically oxidizing a fuel directed to said anode and a second catalyst composition for evolving oxygen from water, said second catalyst composition comprising a metal oxide,

wherein said metal oxide comprises a solid solution of RuO<sub>2</sub> and IrO<sub>2</sub> having iridium present in an atomic ratio of ruthenium to iridium of no greater than 90:10.

Claim 13 (previously presented): The anode of claim 1 wherein said metal oxide comprises a metal oxide selected from the group consisting of solid solutions of  $RuO_x$  and a valve metal oxide, and solid solutions of  $IrO_x$  and a valve metal oxide, wherein x is greater than 2.

Claim 14. (original): The anode of claim 13 wherein said metal oxide comprises a solid solution of RuO<sub>2</sub> and a valve metal oxide.

Claim 15 (previously presented): An anode for use in a solid polymer electrolyte fuel cell having improved tolerance to voltage reversal, said anode comprising a first catalyst composition for electrochemically oxidizing a fuel directed to said anode and a second catalyst composition for evolving oxygen from water, said second catalyst composition comprising a metal oxide, and wherein said metal oxide comprises a solid solution of RuO<sub>2</sub> and TiO<sub>2</sub>.

Claim 16 (currently amended): The electric power generation system anode of claim 15 wherein said bypass control device comprises a bypass inlet valve connected to one of said-reactant passages upstream of said humidifier, and a bypass outlet valve connected to one of said reactant passages downstream of said humidifier, and wherein said bypass conduit is connected to said bypass inlet and outlet valves said metal oxide comprises a solid solution of RuO<sub>2</sub> and TiO<sub>2</sub> having

## <u>titanium present in an atomic ratio of ruthenium to titanium of no greater than 50:50</u>.

Claim 17 (previously presented): An anode for use in a solid polymer electrolyte fuel cell having improved tolerance to voltage reversal, said anode comprising a first catalyst composition for electrochemically oxidizing a fuel directed to said anode and a second catalyst composition for evolving oxygen from water, said second catalyst composition comprising a metal oxide,

wherein said metal oxide comprises a solid solution of  $RuO_2$  and a valve metal oxide, and wherein said solid solution has titanium present in an atomic ratio of ruthenium to titanium of no greater than 70:30.

Claim 18 (previously presented): The anode of claim 17 wherein said solid solution has titanium present in an atomic ratio of ruthenium to titanium of no greater than 90:10.

Claim 19 (previously presented): An anode for use in a solid polymer electrolyte fuel cell having improved tolerance to voltage reversal, said anode comprising a first catalyst composition for electrochemically oxidizing a fuel directed to said anode and a second catalyst composition for evolving oxygen from water, said second catalyst composition comprising a metal oxide, and

wherein said metal oxide comprises a solid solution of IrO<sub>2</sub> and TiO<sub>2</sub> having titanium present in an atomic ratio of iridium to titanium of no greater than 90:10.

Claim 20 (previously presented): The anode of claim 1 wherein said first catalyst composition comprises a platinum-containing compound selected from the group consisting of platinum and an alloy of platinum and ruthenium.

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Claim 21 (original): The anode of claim 24 wherein said first catalyst composition is supported on a first carbon support.

Claim 22 (original): The anode of claim 13 wherein said first catalyst composition comprises a platinum-containing compound selected from the group consisting of platinum and an alloy of platinum and ruthenium.

Claim 23 (original): The anode of claim 15 wherein said first catalyst composition comprises a platinum-containing compound selected from the group consisting of platinum and an alloy of platinum and ruthenium.

Claim 24 (original): The anode of claim 3 wherein said first catalyst composition is supported on a first electrically conductive particulate support.

Claim 25 (original): The anode of claim 24 wherein said first catalyst composition is supported on a first carbon support.

Claim 26 (original): The anode of claim 3 wherein said second catalyst composition is supported on a second electrically conductive particulate support.

Claim 27 (original): The anode of claim 26 wherein said second catalyst composition is supported on a second carbon support.

Claim 28 (original): The anode of claim 3 wherein said first and second catalyst compositions are supported on the same electrically conductive carbon particulate support.

Claim 29 (original): The anode of claim 26 wherein said second catalyst composition is supported on a valve metal oxide support.

Claim 30 (previously presented): The anode of claim 1, said second catalyst composition comprising a metal oxide, and

wherein said second catalyst composition is supported on a titanium oxide.

Claim 31 (original): The anode of claim 3 wherein said first and second catalyst compositions are incorporated in a common layer in said anode.

Claim 32 (original): The anode of claim 3 wherein said first and second catalyst compositions are incorporated in different layers in said anode.

Claim 33 (original): The anode of claim 3 wherein said fuel stream comprises gaseous hydrogen.

Claim 34 (previously presented): A method of making a solid polymer electrolyte fuel cell tolerant to voltage reversal, said fuel cell comprising an anode, a cathode, and a solid polymer electrolyte, said anode comprising a first catalyst composition for electrochemically oxidizing a fuel directed to said anode, said method comprising incorporating a second catalyst composition in said anode capable of evolving oxygen from water,

wherein said second catalyst composition comprises a metal oxide selected from the group consisting of precious metal oxides, mixtures of precious metal oxides, solid solutions of precious metal oxides, mixtures of precious metal oxides and valve metal oxides, and solid solutions of precious metal oxides and valve metal oxides, whereby voltage reversal tolerance is imparted to said fuel cell.

Claim 35 (original): The method of claim 34 wherein said second catalyst composition is deposited on an electrically conductive particulate support.

Claim 36 (original): The method of claim 35 wherein said second catalyst composition is deposited on a carbon support.

Claim 37 (original): The method of claim 36 wherein said first catalyst composition and said second catalyst composition are deposited on said carbon support.

Claim 38 (original): The method of claim 34 wherein said anode comprises a substrate and the method comprises mixing said first and second catalyst compositions and applying the mixture to said substrate in a common layer.

Claim 39 (original): The method of claim 34 wherein said anode comprises a substrate and the method comprises applying said first and second catalyst compositions to said substrate in two separate discrete layers, thereby forming a bilayer anode.

Claim 40 (original): A solid polymer electrolyte fuel cell having improved tolerance to voltage reversal prepared by the method of claim 34.

Claim 41 (original): A membrane electrode assembly comprising the anode of any one of claims 1-32.

Claim 42 (previously presented): A fuel cell comprising the anode of any one of claims 1-32.